

# **PIONEER**



STEREO TURNTABLE

# PL-300 PL-300X

KUT,KCT

KIJ

For descriptions and adjustment methods of the D.D.motor and the mechanism employed in this model, refer to the Supplementary Service Manual (ART-467) for the PL-200, PL-255, PL-300, and PL-400 models.

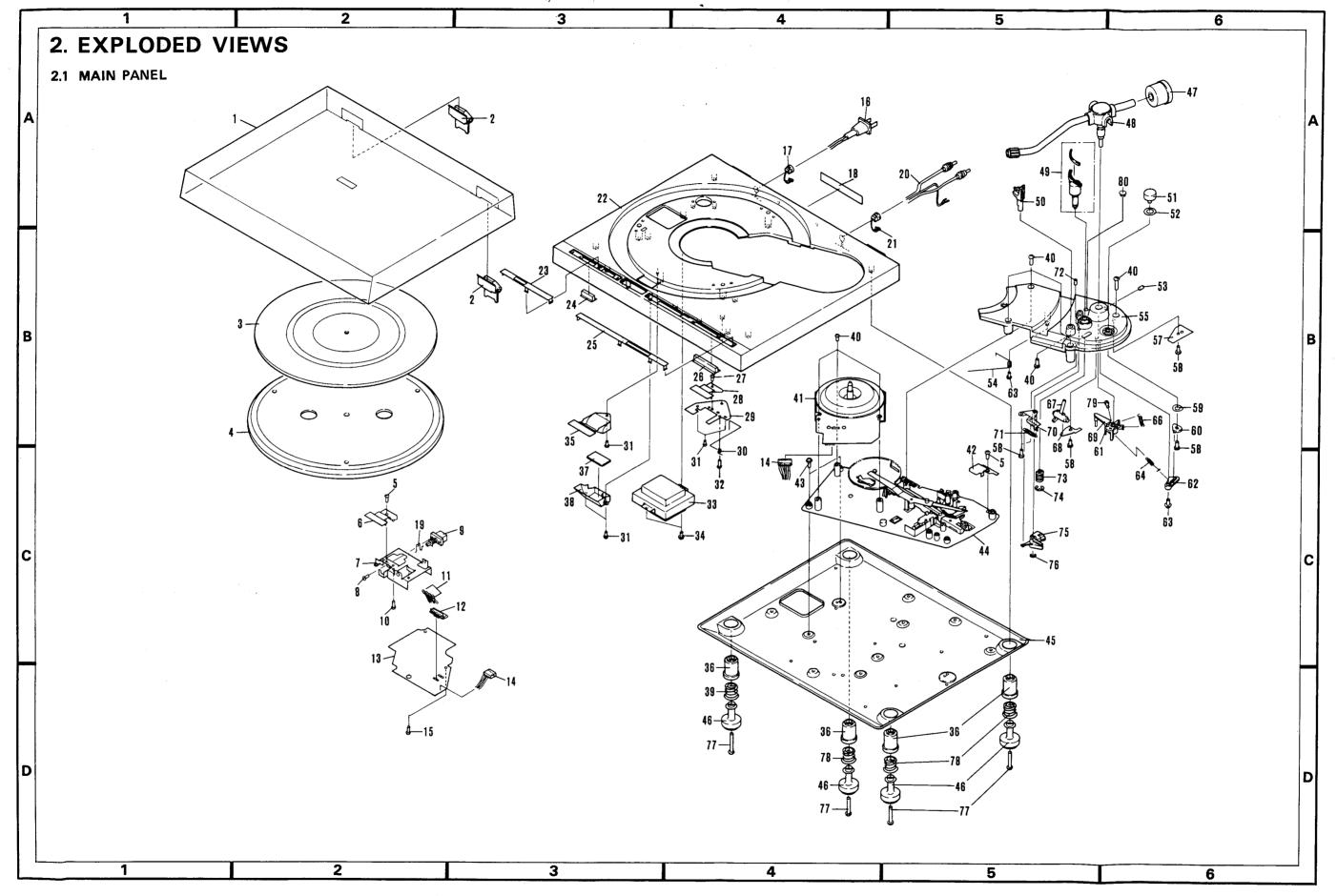
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# 1. SPECIFICATIONS

Motor and Turntable
Drive System Direct-drive Motor Quartz PLL Hall motor Turntable Platter 310mm diam. aluminum alloy die-cast Moment of Inertia 180kg-cm² (including platter mat) Speeds 33-1/3 and 45rpm Wow and Flutter Less than 0.025% (WRMS) Signal-to-Noise Ratio More than 75dB (DIN-B) (with Pioneer cartridge model PC-135)
Rotational Characteristics
Build-up Time Within 120° rotation at 33-1/3rpm Speed Deviation Less than 0.002% Speed Drift Less than 0.00008%/h at 33-1/3rpm Less than 0.00003%/degree temp. change at 33-1/3rpm
Tonearm
Type
Subfunctions
Auto return mechanism, Anti-skating force control, Stylus pressure direct-readout counterweight, Cueing device, Strobe light, Free stop hinges
Semiconductors

Transistors       3         Diodes       6         Hall Elements       3
Miscellaneous
Power Requirements
Accessories
EP Adapter 1
Cartridge mounting parts (KUT, KCT)  Cartridge mounting screws
Operating Instructions
PC-135 Specifications (PL-300X KU)
Type
Tracking Force 1.5g to 2.3g (proper 2g) Frequency Response
NOTE:  Specifications and design subject to possible modification without notice, due to improvements.



# PL-300/KUT,KCT PL-300X/KU

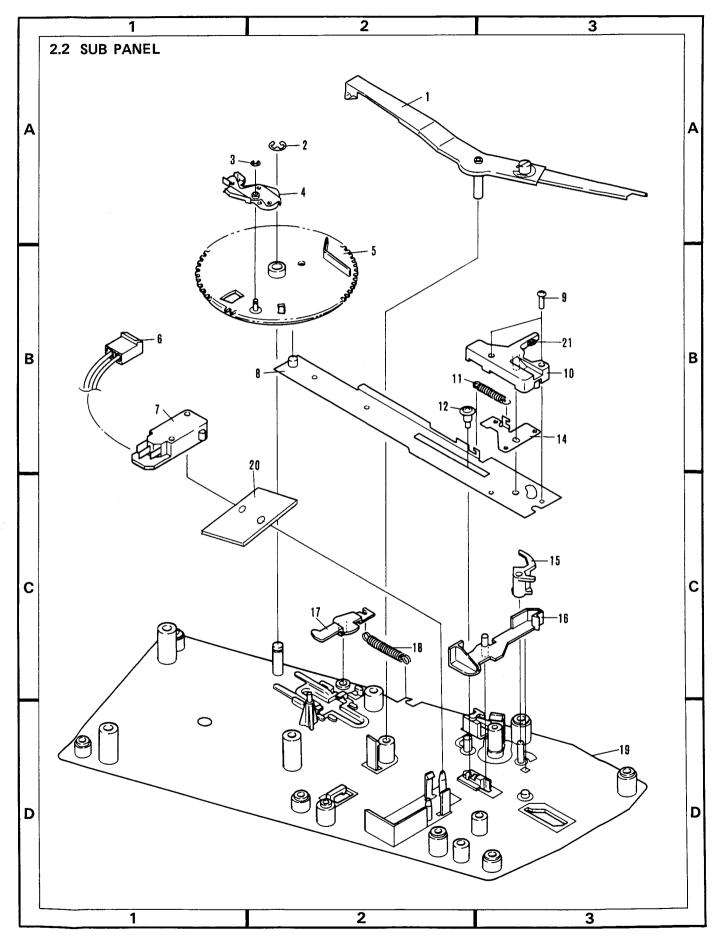
#### Parts List of Main Panel

#### NOTE:

• Parts without part number cannot be supplied.

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The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Key No.	Part No.	Description	Key No.	Part No.	Description
			46.	PNX-062	Foot case
1,	PNV-034	Dust cover	47.	PXB-092	Weight assembly
2.	PXB-155	Hinge assembly	48.	PPD-591 (PL-300)	Arm assembly
3.		Rubber mat assembly	48.	PPD-593 (PL-300X)	
	PEB-150 (KCT)	Turntable platter	49.	PXB-107	EV sheet assembly
4.	PNR-115		50.	PXB-094	Arm rest assembly
5.		Deltite screw 3 x 8		PAC-045 (PL-300)	AS knob
6.		Button guide C	51.		AC KIIOD
7.		Angle		PAC-041 (PL-300X)	
8.		Semes A screw 3 x 5	52.	PBF-005	AS washer
9.	PSG-020	Push switch	53.		Hexagon socket headless set screw
10.	. 55 525	Taptite P screw 3 x 8			4 x 7
10.			54,	PXB-152	Cut spring B assembly
	2255040	150	55.	PNX-053 (PL-300)	Arm base
11.	BR5504S	LED	55.	PNX-085 (PL-300X)	
. 12.		LED base		FIX -085 (1 E-500X)	
<u> 13.</u>		Power supply assembly	56.		OUTDUIT sevening
14.	PDE-062	Connector assembly	57.		OUTPUT terminal
15.		Taptite P screw 3 x 8	58.		Taptite P screw 3 x 8
			59.	PBE-012	Washer
A 10	PDG-017	AC power cord	60.	PNX-054	AS adjusting plate
<u> 16.</u>		Strain relief			
17.	PEC-058		61.	PNX-061	PU plate B
18.		Label	62.	PNX-055	Lever
19.	PBH-281	Spring		FNX-033	Washer faced taptite P screw 3 x 10
20.	PDE-064	OUTPUT cord	63.		
		•	64.	PBH-236	AS spring
21.	PEC-056	Strain relief	65.		
22.	PNX-114 (PL-300)	Panel			
22.	PNX-116 (PL-300X)		66.	PBH-244	PU plate spring
		Name plate	67.	PXT-382	EV lever unit
23.	PAM-062 (PL-300)		68.	PBK-042	EV plate spring A
	PAM-066 (PL-300X)		69.	PNX-060	PU piate A
24.	PAC-043	Push button	70.	PXT-385	EV plate spring B unit
25.	PAM-060 (PL-300)	Name plate	70.	171 000	2, 7, 2, 3,
	PAM-064 (PL-300X)			DDU 220	EV cam spring
			71.	PBH-238	Hexagon socket headless set screw
26.	PAC-044	Button	72.		
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Deltite screw 3 x 8			3 x 12
27.	DNIV OEG	Button guide A	73.	PBH-237	EV spring
28.	PNX-052	*	74.		E type washer 7
29.		Button base	75.	PNX-059	EV cam
<b>30</b> .	PXB-151	Cut spring A assembly			
			76.		E type washer 3
31.		Taptite P screw 3 x 8			Screw
32.	PBA-086	Screw	77.		
<u></u> 33.	PTT-078 (KUT, KU)	Power transformer	<b>78</b> .		Foot spring B
<u>/:/</u> 30.	PTT-091 (KCT)		79.		Pan head screw 4 × 8
	F11-091 (RC1)	Taptite P screw 4 x 10			
3 <b>4</b> .			80.	PEB-114 (KUT, KU	) Rubber bush
35.	PNX-051	Lens			
36.	PEB-163	Rubber cushion			
37.		Mirror			
38.		Lens holder			
	PBH-240	Foot spring			
39. 40.	PBA-108	Screw			
• -	DVM 075	Motor			
41.					
42.		Protector			
43.	PBA-109	Screw			
<b>∆44</b> .		Subpanel assembly			
		Base			

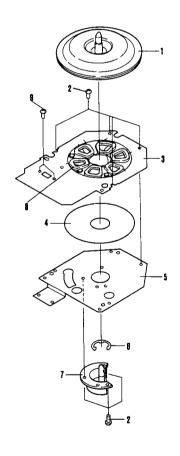


### PL-300/KUT,KCT PL-300X/KU

#### Parts List of Sub Panel

Key No.	Part No.	Description	Key No.	Part No.	Description
1.	PXT-355	Detector lever unit	11.	PBH-224 PBA-103	Spring Screw
2. 3.		E type washer 4 E type washer 1.5	12. 13.	PBA-103	Screw
3. 4.	PYY-058	Return signal unit	14.	PNC-126	START plate Switch plate
5.	PNX-036	Cam	15.	PNX-031	Switch plate
₫ 6.	PDE-070	Connector assembly	16.	PNX-030	Switch lever Plate
<b>∆</b> 7.	PSF-006	Microswitch Plate	17. 18.	PNX-035 PBH-225	Spring
8. 9.		Pan head screw 2.6 x 10	19.		Sub panel unit
10.	PNX-033	EV cam	20.	PEC-057	Insulator
			21.	PEC-065	EV cam cushion

#### 2.3 D.D. MOTOR



Key No.	Part No.	Description	
1.		Rotor unit	
2.		Taptite screw 3x5	
3.		Control assembly	
4.		Insulator	
5.		Base unit	
6.		EW12	
7.		Shaft holder	
8.		Coil	
9.		Taptite screw 3×12	

# 3. SCHEMATIC DIAGRAM AND PARTS LIST

#### NOTE:

- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

 $560\Omega$   $56 \times 10^1$  561  $RD^1/4PS$  BGIJ  $47k\Omega$   $47k\Omega$  47k

- Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).  $5.62k\Omega \quad 562\times 10^1 \quad 5621\ldots\ldots RN4SR \; \text{So21} \; F$
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

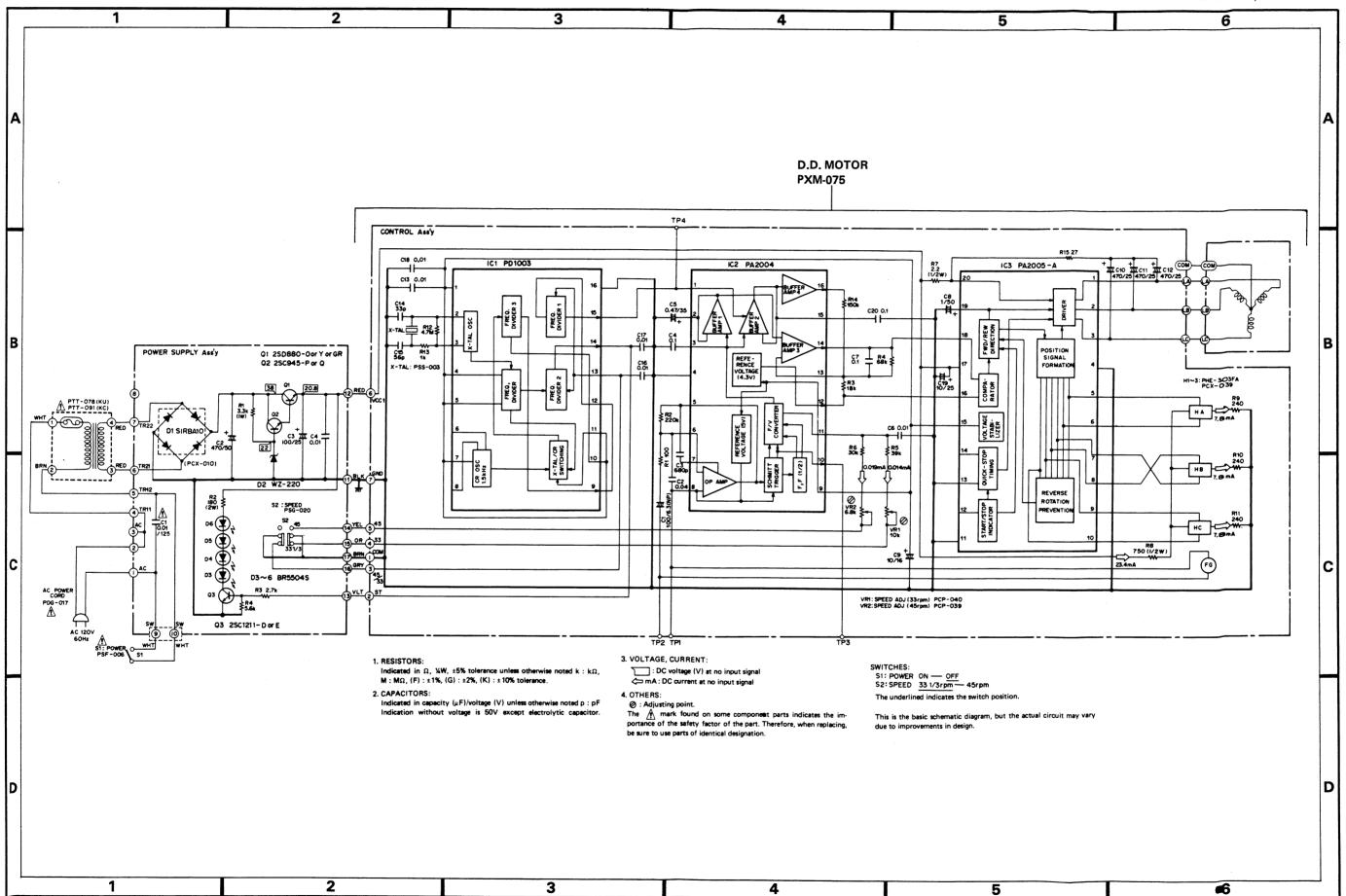
#### Parts List of D.D. motor (PXM-075)

#### Parts List of Power Supply Assembly

CAPACITORS		Part No.	Symbol & Description	
Part No.	Symbol & Description	2SD880	Q1	
		2SC945	Q2	
CEA 101M 6,3NP	C1	2SC1211	Q3	
CKDYF 403Z 50	C2	PCX-010	D1	
CKDYB 681K 50	C3	WZ-220	D2	
CQMA 104J 50	C4	BR5504S	D3-D6	
CSZA R47K 35	C5			
		CKDYF 103Z 50	C4	
CKDYF 103Z 50	C6, C13, C16-C18	CEA 471M 50L	C2	
CQMA 104K 50	C7, C20	CEA 101M 25L	C3	
CEA O10P 50	C8	<b>∆ PCL-036</b>	C1	
CEA 100P 16	C9			
CEA 471P 25	C10-C12	RD%PS 272J	R3	
		RS2PF 181J	R2	
CCDCH 330J 50	C14	R\$1PF 332J	R1	
CCDCH 560J 50	C15	RD 1/4 PS 562 J	R4	
CEA 1 00P 25	C19			
Note:		PSG-020	\$2	Speed selector
RESISTORS	resistance value into code form, and	PDE-062		Connector assembly
	then rewrite the part no. as before.	PNX-015		Insulator
Part No.	Symbol & Description	PBH-261		Push button spring
RD%PS DDDJ	R1-R6, R9-R15			
RD%PS OOOJ	R7, R8			
PCP-040	VR1 (10k-B)			
PCP-039	VR2 (6.8k-B)			

#### SEMICONDUCTORS AND OTHERS

Part No.	Symbol & I	Symbol & Description			
PD1003	IC1				
PA2004	IC2				
PA2005A	IC3				
PHE-303FA	H1-H3	Hall element			
PSS-O03	Crystal				



## 5. PACKING

PXA-791 (PL-300X)

PXT-941 (PL-300X) Cartridge assembly

